BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Estimate Cost Rs. 2500000.00

Name of Work: Detailed Estimate for the work of Construction of Meeting Hall at Govt School in ward No-04 yelahanka upanagara .

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRB 2-2.1 : Earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, No.5/Item No. 2.3) (SR. 2016-17)	cum							
	coloumns for roof struss	2x8	16	0.90	0.90	0.90	11.66		
	for SSM		2	20.00	0.75	0.75	22.50		
			2	15.00	0.75	0.75	16.88		
							51.04	204.12	10418.00
	Basic Rate	189.00							
	Area Weightage @ 8%	15.12							
	Total	204.12							
2	KSRB 100-1 Loading and unloading ofstone aggregates / sand/ kanker/ Moorum /soil KSRRB M100-1 Placing tipper at loading with front end loader dumpting turning for return trip excluding time for haulged and return trip complete as per specification item No 17.1 page 130 and KSRB M.100.4.1 costof haulage excluding loading and unloading MORTH to a distance of 4.00 K.M (Item No 17.4 Page 134 (SR 2016-17)	cum							
			Vide Item No. 1				51.04	87.26	4454.00
	Basic Rate for loading and unloading	68.00							
	Basic Rate for Haulage upto 4.00 k.m =1.28 X 2.50 X 4	12.80							
		80.80							
	Area Weightage @ 8%	6.46							
	Total	87.26							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
3	KSRB-4-1.2 : Providing and laying in position plain cement concrete of mix **1:3:6 withOPC** cement at 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.465cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2, No. 12/ Item No. 4.2/ PWD SR 2016-17	Cum							
	coloumns for roof struss	2x8	16	0.90	0.90	0.15	1.94		
	for SSM		2	20.00	0.75	0.10	3.00		
			2	15.00	0.75	0.10	2.25		
	for flat form floorig		1	20.00	15.00	0.10	30.00		
							37.19	**5449.68**	**202695.00**
	Basic Rate	5046.00							
	Area Weightage @ 8%	403.68							
	Total	**5449.68**							
4	KSRB 5.2.3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 (Page No. 23/ Item No. 5.6) SR-2016-17	Sqm							
	for SSM		2	20.00	0.60	0.60	14.40		
			2	15.00	0.60	0.60	10.80		
							25.20	4521.96	**113953.00**
	Basic Rate	4187.00							
	Area Weightage @ 8%	334.96							
	Total	**4521.96**							
5	Providing and laying /fixing cement base. **Precast, pre polished cement concrete designer tiles 25mm thick** conforming to IS 1237 heavy duty tiles for flooring, treds of steps and landing, laid on bed of 12mm thick cement mortal 1:3 mis finished with flush pointing using white cement, including cost of materials, including cutting griding the eges to half/full round wherever required. Labour, curing complet as per specification. Page No. 108/ Item No. 14.62 / PWD SR 2016-17	Sqm							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
			1	18.00		14.00	252.00		
							252.00	1171.80	**295294.00**
	Basic Rate	1085.00							
	Area Weightage @ 8%	86.80							
	Total	**1171.80**							
6	KSRB 15.1.1: Providing **flush pointing** to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications.(Page No.113/Item No. 15.1 (SR. 2016-17)	Sqm							
			2	20.00		0.40	16.00		
			2	15.00		0.40	12.00		
							28.00	104.76	**2933.00**
	Basic Rate	97.00							
	Area Weightage @ 8%	7.76							
	Total	**104.76**							
7	KSRRB M300-53: construction of embankment with approved material gravel/murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement table 300-2 complete as per specifications. (which includes cost of gravel/murrum, watering charges & compaction by vibratory roller) MORTH specification Page No. 305.4.3, No. 156/ Item No. 19.60/ PWD SR 2016-17	cum							
	for flatform		1	20.00	15.00	0.30	90.00		
							90.00	**326.16**	**29354.40**
	Basic Rate	302.00							
	Area Weightage @ 8%	24.16							
	Total	**326.16**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
8	KSRB 4.2.2 Providing and laying in position plain cement concrete of mix M20 withOPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @0.460cum with superplastesisre @ 3lts conforming to IS9103-1999Reffirmed machine mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour HOM of machinery, curing, complete as per specifications. Specification: No. KBS 4.1.4.6, No. KBS 4.1.4.6, No. 13/ Item No. 4.11/ PWD SR 2016-17	Cum							
		2x8	16	0.90	0.90	0.80	10.37		
							10.37	6491.88	67308.00
	Basic Rate	6011.00							
	Area Weightage @ 8%	480.88							
	Total	6491.88							
9	KSRB 4.9.2 providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 Page No. 17/ Item No. 4.46/ PWD SR 2016-17	Quintal							
	60kg/cum		0.600	10.37			6.22		
				10.37			6.22	5605.00	34868.00
	Basic Rate	5605.00							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
10	Fabricating supplying and erecting M.S. TubulerTruss of span upto 10m bottom and top member is provided with 50x50x6mm double equale angles, welded back to back and in between top and bottom line, in ereas of mid section is provided with 50x50x6mm equal single angle for vertical and inclined members and at supporting ends 40x40x5mm single angle is provided all the members are weldeded toghter with 6mm gusset plate as per drawing. The enter truss is anchored in RCC column buy using 4Nos of M.S anchor bolts at eacth support, with 10mm thick base plate and shoe plate. The work includes cutting, straightening , pacing in position of M.S angle and welding wherever necessary, and applying one of red oxide primer coat to all the members including cost of all materials, labour charges and higher charges of mechineries for cutting welding, granding and erection equipments, with all lead and lift, transportation, etc, complete as per specification. Page No. 45/ I No. 7.29/ PWD SR 2016-17	Kgs							
	50mm dia foundation bolts 0.45mtrs long = 16x8x0.6= 76.80rmt@2.47kg/rmtr=189.70		76.80	2.47			189.70		
	nuts 16x8 = 128 Nos @ 0.05kg/mtrs = 6.40kg		128	0.05			6.40		
	30cm base squre plate 10mm thick x 3Nos for each columns = 16x3 x0.45x0.45 =9.72@93.60kgs/sq		9.72	93.60			909.79		
	60cm dia MS pipe 6mm thick for each coloumns = 4.5mt height x 16Nos = 72 @46.30 kg/mtrs		72	46.30			3333.60		
	ISMC-125								
	16Nos x 1.80 = 28.80 @ 15.kg/mtrs		28.8	15.00			432.00		
	15mm dia MS Pipe medium grade 8Nos x 17Mtrs @ 5.03kg/mtrs		136	5.03			684.08		
	15mm dia MS Pipe medium grade 8Nos x 16Mtrs @ 5.03kg/mtrs		128	5.03			643.84		
	20mm dia medium pipe 8x 56 Nos x 0.75 @5.03kg/mtrs		336	5.03			1690.08		
	MS rectangular tubes (perlins) 1 length = 35 kgs = 14x4 length x 35 kgs = 1960						1960.00		
	2"x2" L Angle Clite 8x32x0.30 = 76.80 Mtrs for foundation 8x8x0.90 = 57.60 76.80 = 134.40 Mtrs x 2.50		134.4	1.25			168.00		
							10017.00	118.80	1190020.00
	Basic Rate	110.00							
	Area Weightage @ 8%	8.80							
	Total	118.80							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
11	PROVIDING TRAPEZOIDAL PROFILED SHEET Providing and installing of pre painted Galvolume iron Trpezoidal profiled sheet of approved make 1060mm width (1000mm cover width), 28-30 mm crest height with cest distance of 200 mm c/c with 2ribs at the center for stiffening , The total coated thickness (TCT) of the sheet will be 0.47 mm +/- 0.02 mm tolerance Zinc –Alu Alloy coating AZ 150 gsm as pe ASTM 1397/A755-550 mpa steel grade. 5-7 microns epoxy primer on both side of the sheet and polyester top coat 20-22 microns using self drilling /self tapping screws of 25mm length,to be fixed over the existing purlins, rafters channel and trusses. No. 300/ Item No. 38.30 PWD SR 2016-17	sqm							
	GI Sheet (0.5mm)		1	15.00	20.00		300.00		
							300.00	831.60	249480.00
	Basic Rate	770.00							
	Area Weightage @ 8%	61.60							
	Total	831.60							
							TOTAL (A)		2210562.20
	B) Electrification work for Meeting hall								
Sl.No.	Description of Work	Qty.					Rate Rs.	Unit	Amount
2.1. 2.1	Concealed Conduit System Supplying heavy gauge PVC conduit pipe ..... mm dia ..... mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary.19/20mm dia 2mm thick PWD SR (Electrical) of 14-15.	125					43.00	Mtrs	5375.00

Sl No	Description of item	QTY	No	L	B	D	Rate	Unit	Amount
2/1. 3.1	Supplying heavy gauge PVC Conduit Pipe ....dia .....mm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary.19/20mm dia 2mm thick PWD ESR of 14-15	45					56.00	Mtrs	2520.00
3/1. 12	Supplying And Fixing Metal Fan Box with Round Hook. PWD ESR	6					92.00	Nos	552.00
2/1. 5.1	Supplying and fixing PVC/metal conduit Deep junction box.19/20mm deep junction box PWD ESR 14-15	14-15 20					47.00	Nos	940.00
3/1. 6.3	Supplying and flush mounting teak wooden box without front plank, made of not less than 12mm thick wood, after due groove cutting, Finishing with necessary cement plastering complete.10"x7"x3" (254x178x76mm)	2							
	4)8"x6"x3" (203x152x76mm)	4					87.00	Nos	174.00
	1)12"x12"x3" (300x300x76mm) PWD ESR 14-15	1					73.00	Nos	292.00
5/2 2.1	Point wiring using Copper wire with switch. Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2 X1.5Sq.mm Cable confirming to the GTP, with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. GROUP B Short point upto 3Mtr from tapping point to out let via switch PWD ESR 2014-15	10					116.00 159.00	Nos Pts	116.00 1590.00

Sl No	Description of item	QTY	No	L	B	D	Rate	Unit	Amount
	Medium point above 3Mtr upto 6Mtr from tapping point to out let via switch PWD ESR 2014-15	15					220.00	Pts	3300.00
	Long point above 6Mtr upto 10Mtr from tapping point to out let via switch PWD ESR 14-15	10					321.00	Pts	3210.00
2.6.2	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper conductor single core wire in open or concealed system of wiring as per IS-694:1990 & confirming to GTP of GROUP -B.1.5 sqmm PWD ESR - 14-15	150					15.90	Mtrs	2385.00
	3)2.5 sqmm	150					24.90	Mtrs	3735.00
17/3.9	Supplying 4mm thick plastic sheet with necessary nitches for fixing switches, regulators etc., and fixing on existing wooden or metal box using N.F. screws. PWD ESR - 14-15	2280					0.25	Sq cms	570.00
17/3.1 1.2	Extra for supplying 4mm thick white plastic plate and covering for junction boxes of size ..... mm conduit using necessary machine screws.110mm PWD ESR - 14-15	10					11.00	Nos	110.00
183 15. A	Supplying and fixing/replacing of 6/16/32Amps electrical accessories on existing switch board. GROUP A 6Amps SP Switch PWD ESR 14-15	10					35.00	Nos	350.00
	3)6Amps 3 way 5 pin Socket	8					53.00	Nos	424.00
	12)32 Amps Bakelite DP	2					156.00	Nos	312.00
45/6.7.2	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers.32Amps PWD ESR 14-15	2					180.00	Nos	360.00
47/6.1 6.1	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.5-32Amps SP	4					418.00	Nos	1672.00
	3)5-32 Amps DP	1					849.00	Nos	849.00

PWD ESR - 14-15

Sl No	Description of item	Qty	No	L	B	D	Rate	Unit	Amount
55/7.4.4	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A.4 core 16 sqmm PWDESR - 14-15	25					140.40	Mtrs	3510.00
61/7.8.7	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.On wall /Structure 25 sqmm to 75 sqmm PWDESR 14-15	25					34.80	Mtrs	870.00
49/6.4	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete.16SWG PWD ESR - 14-15	8550					0.33	Sq cms	2821.50
20/4.6	Supplying patti type fluorescent tube light fitting of 4' -suitable for 28 watts fluorescent tube fitting, made out of M.S. Sheet and stove enameled with HF Electronic Ballast , locking type brass contact holders mounted on double fold type sheet base fully wired for use on 230 volts AC . Supply including T5 lamp. PWDESR - 14-15	10					669.00	Nos	6690.00

Sl No	Description of item	QTY.	No	L	B	D	Rate	unit	Amount
9.3.1	Supplying capacitor type ceiling fan complete with down rod blades, shackle, canopies etc., for operation on 230 volts, 50 cycles. Single phase AC supply conforming to ISS-374-1979 and with double ball bearing system. 48" Sweep (1200mm) Regular model PWD ESR - 14-15	6					2376.00	Nos	14256.00
108/17.7.1	Fixing all types and all capacities of fluorescent / false ceiling / spot light / CFL / LED fittings indoor on the wall / ceiling / rafters / girders using 23/0.0076" twin twisted PVC insulated wires, required Nos of round blocks and clamps. On wall / ceiling / Rafter / Girders PWD ESR 14-15	10					98.00	Nos	980.00
109/17.8	Fixing a ceiling / Wall mounting fan of all capacities and all types to the existing 'S' hook with fan regulator to the existing board together with supplying and fixing 5 amps. ceiling rose, necessary length of 23 / 0.0076 inch PVC insulated twin twisted copper wire and wiring. PWD ESR 14-15	6					139.00	Nos	834.00
55/7.1	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is te be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia PWD ESR 14-15	1					2727.00	Nos	2727.00

Sl No	Description of item	Qty	No	L	B	D	Rate	Unit	Amount
62/ 7.1 2.1	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV.40mm PWD E&R 14-15	4					345.00	Mtrs	1380.00
62/ 7.1 3	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc.16Sqmm PWD E&R 14-15	1					280.00	Nos	280.00
47/ 6.1 7.II	Supplying and fixing regular MCB distribution boards on wall / wood board / flush mounting using required clamps, bolts, nuts etc., with provision for fixing suitable type capacity MCB's single phase / 3 phase / single door with powder coated painting. Made out of 14 SWG MS enclosure.II - Double Door.8Way SP &N PWD E&R 14-15	3.00					1299.00	Nos	3897.00
	Bescom deposite charges								15000.00
							Total B)		82081.50
							Total A+B		2292643.70
	KRIDL Service charge 9%								206338.00
16	Miscellaneous charges								1018.30
								Total	2500000.00
(Rupees Twenty five Lakhs Only)									

CERTIFICATE

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per C.S.R. of 2016-17
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Ramareegeerahalli
Assistant Engineer

Assistant Executive Engineer
Yelahanka satellitetown Sub Division
Bangalore-64

Executive Engineer
Yelahanka Division
Bangalore-64

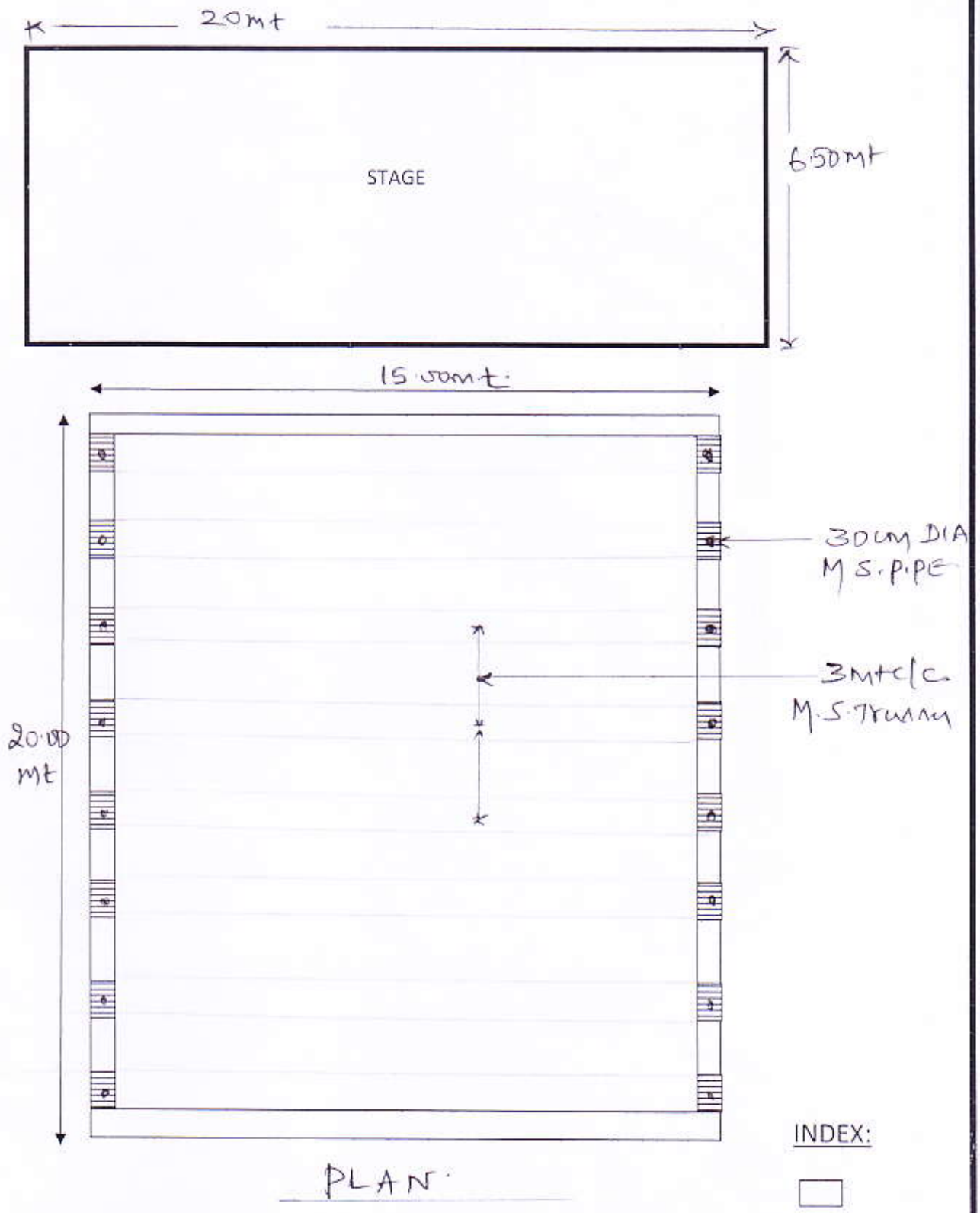
Administrative Approval
Accorded For 25.00 lakhs
Head of A/C P3181
CER NO : 93 Dt:.01/08/17

TA CE (YNK)

Technical Sanction
Accorded For 25.00 lakhs
Head of A/C P 3181
CER NO : 170 Dt:.01/08/17

TA CE (YNK)

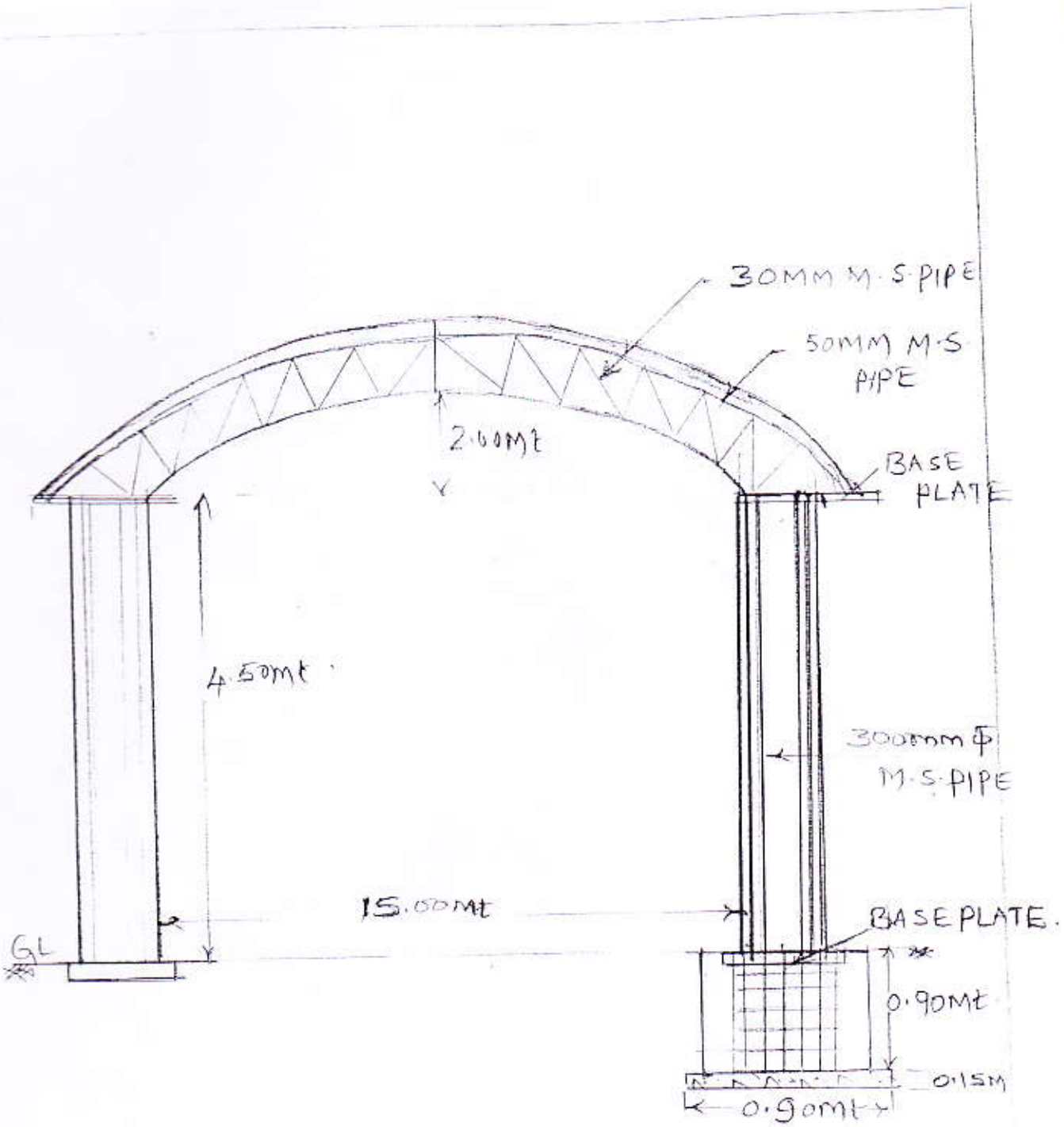
Name of work: Construction of Meeting Hall at Govt School in ward No-04 of yelahanka New town Sub Division.



PLAN

A.E. Ramaraj Reddy

A.E.E.



CROSS SECTION

Ramanjeanah AE

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

BRUHAT BANGALORE MAHANAGAR PALIKE
WARD: 4 - YELHANKA SATELLITE TOWN

NOTIFICATION NO. UDD 59 MLR 2009, DATE: 15.07.09

ಮುಖ್ಯ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಧಿಕಾರಿಯವರ ಆದೇಶದಂತೆ
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-106